Atty Docket No. 021756-017600US

PTO FAX NO.: 571-273-5629

ATTENTION: Examiner Dennis Y. Myint Group Art Unit 2162

# OFFICIAL COMMUNICATION

# FOR THE PERSONAL ATTENTION OF

# EXAMINER Dennis Y. Myint

## CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that the following documents in re Application of Christopher Che et al., Application No. 10/612,769, filed July 1, 2003 for SYSTEM AND METHOD FOR ASSEMBLING TIMING DATA IN A MULTI-LAYER SERVER ENVIRONMENT are being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Documents Attached

1. Amendment (10 pages).

Number of pages being transmitted, including this page: 11

Dated: August 21, 2008 Peggy Smiley

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TOWNSEND and TOWNSEND and CREW LLP

By: Peggy Smiley
Peggy Smiley

PATENT
Attorney Docket No.: 021756-017600US
Client Ref. No.: OID-2005-304-01

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Christopher Che et al.

Application No.: 10/612,769

Filed: July 1, 2003

For: SYSTEM AND METHOD FOR ASSEMBLING TIMING DATA IN A MULTI-LAYER SERVER ENVIRONMENT

Customer No.: 51206

Confirmation No. 4994

Examiner: Dennis Y. Myint

Technology Center/Art Unit: 2162

AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Examiner's Interview of August 21, 2008, please enter the following amendments and remarks:

**Amendments to the Specification** begin on page 2 of this paper.

**Amendments to the Claims** are reflected in the listing of claims which begins on page 3 of this paper.

**Remarks/Arguments** begin on page 9 of this paper.

**Amendments to the Specification:**

Please replace paragraph **[0022]** with the following amended paragraph:

**[0022]** These request and response HTML pages can include hidden data fields that can store various kinds of data. Each server in the multi-layer server environment that receives the HTML request page deposits an arrival time into the hidden data fields of the HTML request page, wherein the servers in the multi-layer server environment include a central processing unit (CPU) and a computer-readable storage medium such as hard disk, CD ROM, optical disk, and the like. When an HTML response page is generated, the arrival times reported by the various servers are transferred to the hidden data fields in the HTML response page. In addition, each server that receives the HTML response page inserts departure times of the HTML response page into the hidden data fields in the HTML response page. The arrival times of the HTML request page and the departure times of the HTML response page are stored in a database server. These arrival and departure times can be utilized to calculate the efficiency of each server in the multi-layer server environment.

ENTER.

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08/22/2008

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

1. (Previously Presented) A method for assembling timing data for each layer in a multi-layer server environment including a plurality of servers, comprising:

generating a first HTML based request;

depositing a time of generation of the first HTML based request in one or more hidden data fields associated with the first HTML based request;

forwarding the first HTML based request to a first set of servers of the plurality of servers, wherein each server of the first set of servers deposits in the one or more hidden data fields associated with the first HTML based request an arrival time of the first HTML based request arriving into the server and a departure time of the first HTML based request departing from the server;

generating, by a server of the first set of servers, an HTML based response in response to receiving the first HTML based request;

depositing a time of generation of the HTML based response in one or more hidden data fields associated with the HTML based response;

transferring the arrival times, the time of generation of the HTML based request, and the departure times to the one or more hidden data fields associated with the HTML based response;

forwarding the HTML based response to a second set of servers of the plurality of servers, wherein each server of the second set of servers deposits in the one or more hidden data fields associated with the HTML based response an arrival time of the HTML based response arriving into the server and a departure time of the HTML based response departing from the server;

receiving the HTML based response to a browser for displaying the HTML based response, the browser operable to store a time of arrival and a time of display for the HTML based response;

generating a second HTML based request, the second HTML based request including the times of generation of the first HTML based request and the HTML based response, the arrival times of the first HTML based request and the HTML based response, the departure times of the first HTML based request and the HTML based response, and the time of display for the HTML based response in one or more hidden data fields associated with the second HTML based request; and

storing the times of generation of the first HTML based request and the HTML based response, the arrival times of the first HTML based request and the HTML based response, the departure times of the first HTML based request and the HTML based response, and the time of display for the HTML based response from [in] the hidden data fields in the HTML based response in a database within a request-response cycle corresponding to the second HTML based request.

2. (Original) The method of claim 1, further comprising displaying the one or more hidden data fields to a user.

3. (Canceled)

4. (Previously Presented) The method of claim 1, further comprising performing analysis on the times of generation, arrival times, departure times, and time of display in the database to determine a time of delay at each server and at the browser for the first HTML based request and the HTML based response, the plurality of servers including at least one of an application server and a database server.

5. (Previously Presented) The method of claim 1, wherein at least one of the arrival time of the first HTML based request arriving into the server and the departure time of the first HTML based request departing from the server is based on a local time associated with the plurality of servers.

6. (Previously Presented) The method of claim 5, wherein the local time of at least one of the plurality of servers is synchronized with at least one other of the plurality of servers.

Enter.

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7-12. (Canceled)

13. (Currently Amended) A system for assembling timing data in a multi-layer server environment including a plurality of servers, each of the plurality of servers including a central processing unit (CPU) and a computer-readable storage medium, the system comprising:

a browser for generating a first HTML based request including one or more hidden data fields and for displaying an HTML based response including one or more hidden data fields;

a first server of the plurality of servers for receiving the first HTML based request, depositing into the one or more hidden data fields of the first HTML based request an arrival time of the first HTML based request arriving into the first server, and depositing into the one or more hidden data fields of the first HTML based request a departure time of the first HTML based request departing from the first server;

a second server of the plurality of servers for receiving the first HTML based request and generating an HTML based response in response thereto, the second server operable to transfer the arrival time and departure time of the first HTML based request into the one or more hidden data fields of the HTML based response, and deposit a time of arrival of the first HTML based request and the departure time of the HTML based response into the one or more hidden data fields of the HTML based response;

a third server of the plurality of servers for receiving the HTML based response, depositing into the one or more hidden data fields an arrival time of the HTML based response arriving into the third server, and depositing into the one or more hidden data fields a departure time of the HTML based response departing from the third server;

wherein the browser is further operable to store a time of arrival and a time of display for the HTML based response, and generate a second HTML based request including the times of generation of the first HTML based request and the HTML based response, the arrival

times of the first HTML based request and the HTML based response, the departure times of the first HTML based request and the HTML based response, and the time of display for the HTML based response in one or more hidden data fields associated with the second HTML based request;

wherein-second server is operable to perform analysis on the times of generation, arrival times, departure times, and time of display to determine a time of delay at each server and at the browser for the first HTML based request and the HTML based response, the second server further including at least one of an application server and a database server; and

a database for storing the times of generation of the first HTML based request and the HTML based response, the arrival times of the first HTML based request and the HTML based response, the departure times of the first HTML based request and the HTML based response, and the time of display for the HTML based response within a request-response cycle corresponding to the second HTML based request.

14. (Canceled)

15. (Canceled)

16. (Previously Presented) The system of claim 13, further comprising an internal clock associated with the first server for keeping local time.

17. (Previously Presented) The system of claim 13, further comprising an internal clock associated with the second server for keeping local time.

18. (Previously Presented) The system of claim 13, wherein the first server is a web server.

19. (Previously Presented) The system of claim 13, wherein the second server is an application server.

20-29. (Canceled)

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30. (Currently Amended) A computer program product stored on a computer-readable storage medium configured to store instructions operational by a processor of a computer system for assembling timing data for each layer in a multi-layer server environment including a plurality of servers, the computer program product comprising:

code for generating a first HTML based request;

code for depositing a time of generation of the first HTML based request in one or more hidden data fields associated with the first HTML based request;

code for forwarding the first HTML based request to a first set of servers of [[^1]] the plurality of servers, wherein each server of the first set of servers deposits in the one or more hidden data fields associated with the first HTML based request an arrival time of the first HTML based request arriving into the server and a departure time of the first HTML based request departing from the server;

code for generating, by a server of the first set of servers, an HTML based response in response to receiving the first HTML based request;

code for depositing a time of generation of the HTML based response in one or more hidden data fields associated with the HTML based response;

code for transferring the arrival times, the time of generation of the HTML based request, and the departure times to the one or more hidden data fields associated with the HTML based response;

code for forwarding the HTML based response to a second set of servers of the plurality of servers, wherein each server of the second set of servers deposits in the one or more hidden data fields associated with the HTML based response an arrival time of the HTML based response arriving into the server and a departure time of the HTML based response departing from the server;

code for receiving the HTML based response to a browser for displaying the HTML based response, the browser operable to store a time of arrival and a time of display for the HTML based response;

code for generating a second HTML based request, the second HTML based request including the times of generation of the first HTML based request and the HTML based

response, the arrival times of the first HTML based request and the HTML based response, the departure times of the first HTML based request and the HTML based response, and the time of display for the HTML based response in one or more hidden data fields associated with the second HTML based request; and

code for storing the times of generation of the first HTML based request and the HTML based response, the arrival times of the first HTML based request and the HTML based response, the departure times of the first HTML based request and the HTML based response, and the time of display for the HTML based response from the hidden data fields in the HTML based response in a database within a request-response cycle corresponding to the second HTML based request.

## REMARKS/ARGUMENTS

This Amendment is in response to the Examiner's Interview dated August 21, 2008. After entry of the Amendment dated July 21, 2008, claims 1, 2, 4-6, 13, 16-19, and 30 were pending in this application. This Amendment amends claims 13 and 30. No claims have been added or canceled herein. Claims 1, 2, 4-6, 13, 16-19, and 30 are currently pending. Reconsideration of the rejected claims is respectfully requested.

### I. Examiner Interview

Applicants thank the Examiner for his interview dated August 21, 2008. Claims 13 and 30 and the specification have been amended in the manner suggested by the Examiner. Without conceding the merits, Applicants respectfully submit that the amended claims are allowable.

### II. Amendment to the Specification

The specification has been amended to remove any uncertainty relating to the servers including the hardware components of computer readable storage media and processors. This amendment does not add new matter to the specification. Applicants therefore respectfully request consideration and acceptance of the amendments to the specification.

## CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 650-326-2400.

Respectfully submitted,

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